AN ISO 9001 : 2008 COMPANY AHABL ACCREDITED LABORATORY AS PER ISO/IEC 17025 2005
CIVIL PRO
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP/RW-2018-09-03-07

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore

Address : T.Dasarahalli Sub Division, BBMP, Bangalore

Project Name : Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No 14 Bagalagunte

Agency : Technical Manager West, K.R.I.D.L, Project Implementation Unit, No 280, 30th Cross, 17th C Main road, 3rd V Block, Rajajinagar, Bangalore-560010

Customer Reference : BBMP/ETD(S)/W1/76/2017-18

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 03-09-18

Sample ID No : 2018-09-03-07/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 03-09-18

Date: 06-09-18

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	10.83	11.66	10KN(min)
2	Marshal flow at 60°C, mm	3.78	3.49	2-4
3	Pervent air Voids	4.50	3.68	3-5
4	Pervent Voids in mineral Aggregate(VMA %)	13.40	13.93	13-15
5	Percent Voids filled with Bitumen(VFB %)	73.82	70.96	65-75
6	Density, g/cc	2.25	2.26	-

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig Date BANGALORE

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4, 5TH MAIN MALLESWARAM, BANGALORE - 3

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Lab ID	:	CT-RW-2018-09-07-01 **Date: 08-09-18**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No.14 Bagalagunte
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	07-09-18
Sample ID No	:	2018-09-07-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	07-09-18

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	6.20
4	Average percentage	%	6.1	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig ..... Date .....

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP:BW:2018:09:67:01

2018:09:67:01/01

Date: 08.09.18

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-2(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	80	87	18.5	81.5	70-88
4.75	113	200	42.6	57.4	53-71
2.36	26	226	48.1	51.9	42-58
1.18	28	254	54.1	45.9	34-48
0.6	66	320	68.2	31.8	26-38
0.3	45	365	77.7	22.3	18-28
0.15	31	396	84.3	15.7	12-20
0.075	39	435	92.6	7.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-2(grading-2)
19	0	0	0.0	100.0	100
13.2	57	57	12.2	87.8	90-100
9.5	46	103	22.0	78.0	70-88
4.75	76	179	38.1	61.9	53-71
2.36	44	223	47.5	52.5	42-58
1.18	57	279	59.6	40.4	34-48
0.6	69	348	74.3	25.7	26-38
0.3	30	378	80.7	19.3	18-28
0.15	14	393	83.7	16.3	12-20
0.075	52	445	94.8	5.2	4-10

Note:-
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ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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